



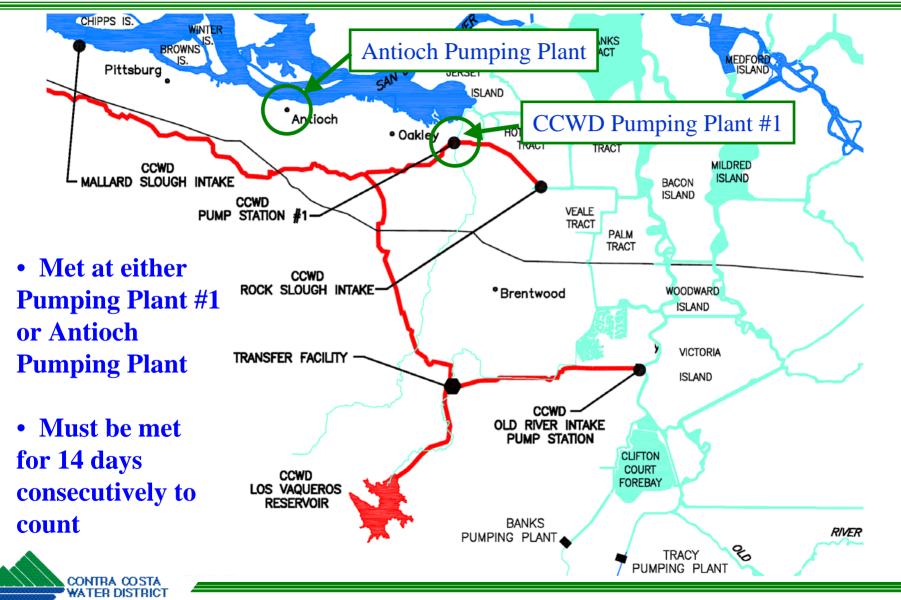
## 150 mg/L M&I Chloride Objective

- Established in D-1485 (August 1978)
- Maintain a chloride concentration of 150 mg/L chloride or better at either the Contra Costa Canal at Pumping Plant #1 or San Joaquin River at Antioch Water Works Intake for at least a given number of days each calendar year, depending on water year type:

*	Wet	240 days	(66% of year)
*	Above Normal	190 days	(52%)
*	Below Normal	175 days	(48%)
*	Dry	165 days	(45%)
*	Critical	155 days	(42%)

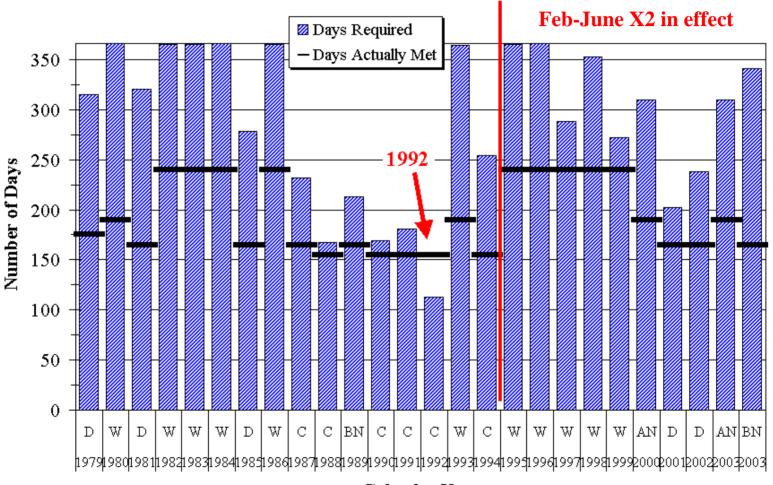


## Compliance Locations for 150 Objective



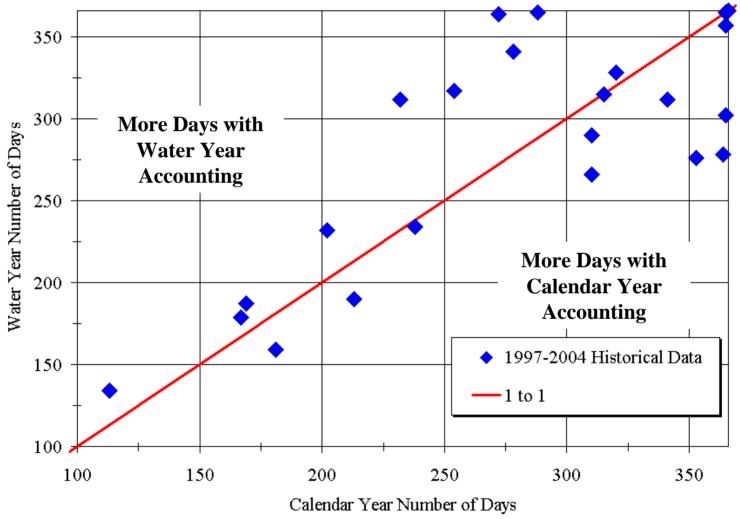
## More Days of 150 mg/L Generally Occur Than Required in 1995 Plan

150 mg/L Typically Met Without any Water Supply Impact





## No Difference Between Calendar Year and Water Year Accounting





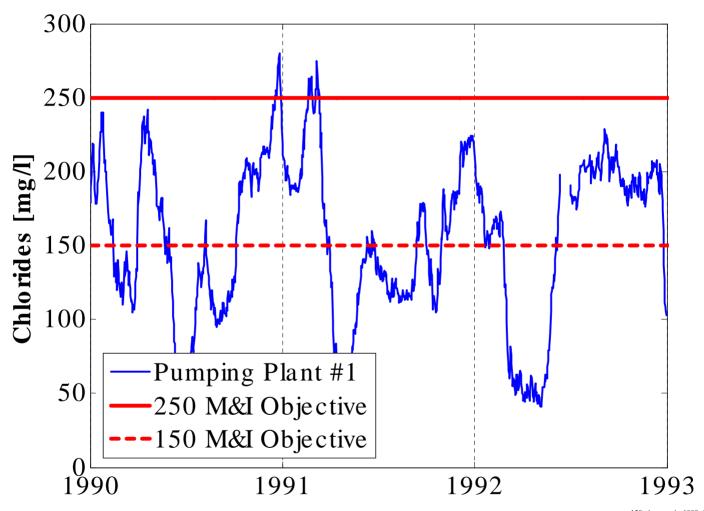
#### **Conclusions**

- 150 mg/L M&I objective should not be eliminated
  - Would degrade drinking water quality
- Objective generally met historically without affecting operations
  - One recent exception is 1992 drought year
  - ❖ X2 estuarine habitat objective (February June) makes 150 objective easier to meet
- No compelling reason to change from calendar year to water year
  - If this was modified, need to ensure there is no net degradation of water quality for CCWD





# Pumping Plant #1 Chlorides During Drought (1990-1992)





a150\_time\_series1990\_1992.m 09-Jan-2005 mm